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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

07/28/2010

FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631 EXAMINER

WONG, EDNA

ART UNIT PAPER NUMBER

1795

DATE MAILED: 07/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/588,686 08/07/2006 Katsuyuki Tsuchida 4700.P0335US 9917

TITLE OF INVENTION: COPPER ELECTROLYTIC SOLUTION CONTAINING AS ADDITIVE COMPOUND HAVING SPECIFIC SKELETON, AND ELECTROLYTIC COPPER FOIL MANUFACTURED THEREWITH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notificated appropriate.	correspondence including ted below or directed oth ations.	ng the Patent, advance of herwise in Block 1, by (	a) specifying a new c	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspo rate "FE	ondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	NTOR ATTORNEY DO		RNEY DOCKET NO.	CONF	IRMATION NO.	
	08/07/2006 N: COPPER ELECTROL PER FOIL MANUFACT		Katsuyuki Tsuchio		COMPOUND HA		4700.P0335US SPECIFIC SKELET(	ON, ANI	9917 D
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	Τ	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	\$1810			10/28/2010
EXAM	EXAMINER ART UN		CLASS-SUBCLASS	3					
WONG	WONG, EDNA 1795		205-296000						
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form registered attorney				a single firm (having as a member a ey or agent) and the names of up to nt attorneys or agents. If no name is 3 svill be printed.  Tor type)  the patent. If an assignee is identified below, the document has been filed for					
4a. The following fee(s)  Issue Fee  Publication Fee (1)	riate assignee category or	4) permitted)	b. Payment of Fee(s):  A check is enclose Payment by crede The Director is he	(Pleased.	Individual	orporati  y prev  is atta ge the	on or other private gro riously paid issue fee s ched. required fee(s), any de	shown a	bove)
a. Applicant claim  NOTE: The Issue Fee an	ntus (from status indicated ns SMALL ENTITY statu nd Publication Fee (if requ	us. See 37 CFR 1.27.	b. Applicant is not	o long	ger claiming SMAI	L EN	ΓΙΤΥ status. See 37 CF	FR 1.27(	g)(2).
interest as shown by the	records of the United Sta	tes Patent and Trademark	k Office.						
Authorized Signature	·				Date				
Typed or printed name					Registration N	o			
an application. Confiden	nation is required by 37 C ntiality is governed by 35 and application form to the tions for reducing this bur Virginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR	1.14. This collection:	is est:	imated to take 12 r	ninutes mment	to complete, including	g gatheri	ing, preparing, and

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FLYNN THIEL	BOUTELL & TANK	WONG, EDNA			
2026 RAMBLING		ART UNIT	PAPER NUMBER		
KALAMAZOO, N	MI 49008-1631	1795			
		DATE MAILED: 07/28/2010			

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 843 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 843 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/588,686	TSUCHIDA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	EDNA WONG	1795					
The MAILING DATE of this communication appearable communication appearable claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.3131.   1.   This communication is responsive to Amendment dated July 1975.	(OR REMAINS) CLOSED or other appropriate comn IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course. <b>THIS</b>					
2. ⊠ The allowed claim(s) is/are <u>4,5 and 10</u> .							
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	be been received. been received in Applicat	ion No					
International Bureau (PCT Rule 17.2(a)).	odinente nave been receiv	od in the hational stage approation from the					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF							
INFORMAL PATENT APPLICATION (PTO-152) which give	. ,	or declaration is deficient.					
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") muse</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> </ol>		out / DTO 049) attached					
(a) ☐ including changes required by the Notice of Dranspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	ew (FTO-946) attached					
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment o						
each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview	nformal Patent Application Summary (PTO-413),					
3. ☑ Information Disclosure Statements (PTO/SB/08),		Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment					
Paper No./Mail Date May 6, 2010  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	s Statement of Reasons for Allowance 					
/Edna Wong/							
Primary Examiner, Art Unit 1795							

# **Drawings**

The drawings were received on June 28, 2010. These drawings are acceptable.

### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims **4-5 and 10** are allowable over the prior art of record because the prior art does not teach or suggest a copper electrolytic solution containing copper and an additive as presently claimed, esp., wherein the additive is selected from the group consisting of at least one compound represented by chemical formulae (2) through (9).

The prior art does not contain any language that teaches or suggests the above. Rockett, Sawyer et al. and De Almeida et al. do not teach an additive selected from the group consisting of at least one compound represented by chemical formulae (2) through (9). Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to EDNA WONG whose telephone number is (571) 272-1349. The examiner can normally be reached on Mon-Fri 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edna Wong/ Primary Examiner Art Unit 1795